DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

50 CFR Part 17

Endangered and Threatened Wildlife and Plants; Proposed Endangered Status for the Florida Grasshopper Sparrow

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Proposed rule.

SUMMARY: The Florida grasshopper sparrow (Ammodramus savannarum floridanus), a bird endemic to the prairie region of south-central Florida, is proposed for listing as an endangered species pursuant to the Endangered Species Act of 1973 (Act), as amended. In the early 1900's the populations of this bird were reportedly large and widespread in Florida. However. surveys conducted between 1980 and 1984 would indicate a population of about 250 adult birds. The principal reason for the decline of the grasshopper. sparrow, and the greatest threat to its continued survival, is habitat loss or degradation resulting from conversion of native vegetation to improved pasture. This proposal, if made final, would implement the Federal protection and recovery provisions afforded by the Act for the Florida grasshopper sparrow. The Service seeks data and comments from the public on this proposal.

DATES: Comments from all interested parties must be received by February 18, 1986. Public hearing requests must be received by February 3, 1986. ADDRESSES: Comments and materials concerning this proposal should be sent to the Field Supervisor, Endangered Species Field Station, U.S. Fish and Wildlife Service, 2747 Art Museum Drive, Jacksonville, Florida 32207. Comments and materials received will be available for public inspection, by appointment, during normal business hours at the above address.

FOR FURTHER INFORMATION CONTACT: Mr. David J. Wesley, Endangered Species Field Supervisor, at the above address [904/791–2580 or FTS 948–2580).

SUPPLEMENTARY INFORMATION:

Background

The following information is abstracted primarily from a report by Delany and Cox (1985) prepared for the U.S. Fish and Wildlife Service.

The grasshopper sparrow (Ammodramus savannarum) occurs throughout most of temperate North America. The Florida subspecies (A. s. flordianus) is geographically isolated from its nearest conspecific, the eastern race (A. s. pratensis), by at least 500 km, and is limited in distribution to the prairie region of south-central Florida.

The Florida subspecies was discovered in 1901 by E.A. Mearns at a location "on the Kissimmee Prairie, 7 miles east of Alligator Bluff, Osceola County, Florida" (Mearns, 1902). Howell (1932) set the northern limit of distribution as 12.9 km southwest of Kenansville (Osceola County), where 10 specimens were collected from a small colony in 1929. He also documented a 1927 report of "numerous" Florida grasshopper sparrows at a location 24 km northwest of Basinger (Okeechobee County); referred to two nests found south of Lake Hicpochee (Hendry County); and stated that Nicholson saw a "number" of birds southeast of Immokalee (Hendry County), where they appeared to be breeding. In 1932, an unspecified number of birds were found south of Fort Drum (Okeechobee County).

More recent records (cited by Delany and Cox, 1985) include one male heard singing 14 km north of Okeechobee (1962), and two birds located 1.6 km south of Brighton in Glades County (1963). In 1968, one specimen was collected in a typical habitat near the Everglades National Park (Dade County); one singing male was reported 'west of Lake Okeechobee" in 1971. Finally, in 1973 and again in 1974. several birds were located southwest of Kenansville. Unfortunately, the leck of early distributional information precludes a precise delineation of the historical range of the subspecies.

Florida grasshopper sparrows are small, short-tailed birds, about 13 cm long. Dorsally they are much darker than the eastern race of the species (A. s. pratensis), being mostly black and gray, lightly streaked with brown on the nape and upper back. Ventrally, adults are whitish and unstreaked, with some buff on the throat and breast. The breast is streaked in the juvenile plumage. The stripe over the eye is ochraceous, and the bend of the wing is yellow; the feet are flesh colored. There are no obvious sexual differences in the plumages. The Florida grasshopper sparrow is a wellmarked subspecies that has been universally accepted as valid since it was described by Mearns in 1902. This subspecies is non-migratory, while the other two subspecies found east of the Rocky Mountains winter across the southern U.S. from Texas to South

The Florida grasshopper sparrow inhabits the stunted growth of saw palmetto, dwarf oaks 30-70 centimeters high, bluestems, and wiregrass, seemingly preferring this habitat to the grassy areas usually occupied by other subspecies of grasshopper sparrows (Howell, 1932). According to Nicholson (1936) the Florida grasshopper sparrow uses the open spaces where saw palmetto are small (25 to 40 centimeters high) and grass is sparse. A low, but sparse growth of saw palmetto, woody shrubs, and bluestems and wiregrass, rather than sod forming grasses, is apparently needed for nesting. Dense vegetation and accumulated litter probably preclude effective foraging by the sparrow.

Delany and Cox (1985) found that, in general, grasshopper sparrows occurred on treeless, relatively poorly drained sites that have been burned frequently. Common shrubs in Florida grasshopper sparrow habitat include pawpaw (Asimina spp.), dwarf oak (Quercus minima), gopher apple [Licania michawcii), and St. John's Wort (Hypericum fasciculatum). The grass and herbaceous ground layer usually is rich in species, being dominated by pineland threeawn (Aristide stricte). bluestems (Andropogon spp.) and flattopped goldenrod (Euthamia minor). In wetter areas of lower elevation, the herbaceous layer includes beak rushes (Rhynchospora spp.), pipewort (Eriocaulon spp.), and yellow-eyed grass (Xyris spp.). Cattle grazing, at a rate of one per 8 hectares, occurs on all sites occupied by sparrows, and does not appear to be detrimental to the species.

In the early 1900's, the populations of Florida grasshopper sparrows were reportedly large and widespread (Howell, 1932). Surveys by Delany and Cox, however, conducted between 1980 and 1984, located only 182 sparrows occurring at nine sites. These sites were in southern Osceola County, southern Polk County, northern Highlands County, western Okeechobee County, and western Glades County. Of the 182 sparrows located, 119 were males. Male sparrows are far more conspicuous than females. If each of the males was mated to a single female, a minimum population estimate for the subspecies would be less than 250 adults. In addition, Delany and Cox found sparrows at only two of the eight sites from which they have been known historically. These facts imply both a reduction in abundance and occupied range for the subspecies. Alteration and loss of habitat due to conversion of native grasslands to improved pastures have been, and continue to be, the greatest threats to the survival of the Florida grasshopper sparrow.

Summary of Factors Affecting the Species

Section 4(a)(1) of the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) and regulations promulgated to implement the listing provisions of the Act (50 CFR Part 424) set forth the procedures for adding species to the Federal lists. A species may be determined to be an endangered or threatened species due to one or more of the five factors described in section 4(a)(1). These factors and their application to the Florida grasshopper sparrow (Ammodramus savannarum floridanus) are as follows (abstracted from Delany and Cox, 1985):

A. The present or threatened destruction, modification, or curtailment of its habitat or range. The principal threat to the Florida grasshopper sparrow is habitat loss or degradation resulting from conversion of native grasslands to improved pastures. The subspecies apparently can tolerate some alteration in vegetation composition and structure, as evidenced by its occurrence in some improved pastures (Stevenson in Kale, 1976). Sparrows have been found in improved pastures where some native vegetation exists. It appears, however, that the species cannot adapt to conditions that result from intensive pasture management which removes all shrubs and saw palmetto. Grasshopper sparrows have been found only in areas that have at least some saw palmetto, shrubs, bluestems and/or wiregrass. Nest sites are located on the ground beneath bushes or tall clumps of grass, features that do not exist in most improved pastures.

Delany and Cox (1985) believe that 6 of the 8 historically known populations of the Florida grasshopper sparrow may have been extirpated as a result of range management. They located 7 new localities for the subspecies, plus two of the historically known sites. Areas now occupied by grasshopper sparrows are managed for cattle by periodic burning during the winter (November-January) at 2- to 3-year intervals. For the most part this does not appear to have adversely affected the grasshopper sparrow populations because prescribed burning improves the habitat for this subspecies by maintaining the prairie grassland community at an early successional stage. There is a possibility that changes in intensity of management could render these sites unsuitable for grasshopper sparrows. More intensive management (removing saw palmetto and planting grass) would eliminate nesting sites. Less intensive management, which would exclude burning or mechancial clearing, would allow vegetation to reach a successional stage which would be unusable by the birds. Much of the land within the range of the Florida grasshopper sparrow is contained in a few large, private ranches; most of the landowners are not aware of the sparrow's existence or needs. Present land use trends indicate a continued loss of habitat for the subspecies due to increased pasture conversion and changes in intensity of management of already converted pastureland.

B. Overutilization for commercial, recreational, scientific, or educational purposes. There is no indication that any of these factors have had a significant impact on the Florida grasshopper sparrow in the past. However, there is a potential for adverse impact if isolated pairs are collected, or scientific collection is conducted at locations were numbers are small.

C. Disease or predation. Hogs, snakes, and skunks are known to destroy nests and prey upon Florida grasshopper sparrows (Nicholson in Smith, 1968). However, these natual losses do not appear to be causing any of the reductions in range and numbers that have been observed.

D. The inadequacy of existing regulatory mechanisms. The Florida grasshopper sparrow occurs on private land, on State Wildlife Mangement Areas (WMA) (Three Lakes WMA in Oscola County, and Fisheating Creek WMA in Glades County), and on land managed and administered by the Federal Government (U.S. Air Force's Avon Park Bombing Range); the Air Force leases pastures on the Bombing

Range for cattle grazing. There are no regulatory mechanisms to assure protection of prairie grassland habitat in private ownership; however, the needs of the grasshopper sparrow are considered when habitat decisions are made on the Bombing Range.

The species is listed as endangered by the State of Florida (Chapter 39-27, Florida Administrative Code), but this legislation does not provide habitat protection. Habitat protection is also not affored under the Migratory Bird Treaty Act (16 U.S.C. 703 et seq.).

E. Other natural or man-made factors affecting its continued existence. It is not known if grasshopper sparrows live directly within the target areas of the Air Force's Avon Park Bombing Range; if so, the birds would be adversely affected by bombing activities. Exploding ordnance might also cause fires that could spread to other areas and result in damage to nearby resident sparrows. However, this is unlikely as the Air Force has an aggressive fire control program. Because the bombing range cannot be entered, the Service cannot evaluate how many, if any, sparrows are present within the drop

The Service has carefully assessed the best scientific and commercial information available regarding the past. present, and future threats faced by this species in determining to propose this rule. Based on this evaluation, the preferred action is to list the Florida grasshopper sparrow as endangered. The total population of this subspecies may be less than 250 adults at 9 scattered sites in the prairie region of south-central Florida. All available evidence indicates that the bird has declined greatly in range and in numbers. This has been due to habitat loss or degradation resulting from pasture conversion and changes in intensity of management of converted pasture. Present land use trends indicate a continued loss of acceptable habitat for the species. Given these factors, the Florida grasshopper sparrow appears to be in danger of extinction throughout all or a significant portion of its range and therefore is being proposed as an endangered species. Critical habitat is not being proposed for the Florida grasshopper sparrow for reasons discussed below in the "Critical Habitat" section.

Critical Habitat

In order for the Florida grasshopper sparrow to survive, it is necessary to maintain a habitat that has a low (30-70 cm), but sparse growth of palmettes and woody shrubs. Prescribing burning or mechanical clearing is necessary to maintain this sort of suitable habitat. Delany and Cox (1985) presented the following information to illustrate how grasshopper sparrow populations fluctuate depending upon the condition of the habitat. They report that in 1981–82, only 4 adult grasshopper sparrows were found at the Three Lakes Wildlife Management Area in Osceola County. Many of the pastures at Three Lakes were burned in the winter of 1983–84, and 37 adult grasshopper sparrows were found there in 1984.

At a pasture site in Okeechobee County, no sparrows were found in 1982, but 32 were found in 1984. This particular pasture is burned every three years and was last burned in the winter of 1982-83. In the summer of 1982, when no sparrows were present, it has been two and a half years since the pasture last last burned. In another pasture, only one grasshopper sparrow was found in 1982, but 8 were found in 1984. This pasture is burned every 2 or 3 years, and was last burned in the winter of 1982-83. In contrast, pastures in the Avon Park Bombing Range contained 8 grasshopper sparrows in 1982, but only one could be found in 1984. Some of the pasture in this area had not been burned in the intervening years, and the vegetation was generally very dense, with little bare ground. From the above, it seems evident that periodic buring (and/or mechancial clearing) of vegetative cover greatly improves the quality of pastures for grasshopper sparrows, and that the birds move from area to area as habitiat improves or deteriorates.

Section 4(a)(3) of the Act, as amended, requires that to the maximum extent prudent and determinable, the Secretary designate any habitat of a species which is considered to be critical habitat at the time the species is determined to be endangered or threatened. The Service finds that designation of critical habitat is not prudent for the Florida grasshopper sparrow for the following two reasons.

First, as discussed above, the Florida grasshopper sparrow is a species which moves around frequently in order to take advantage of the changing mosaic of available habitat. The habitat needs of the species are specific, and its presence in any one area over a long term cannot be predicted or assured. As one area becomes too thickly overgrown to support populations, the birds move to a more sparsely vegetated area that has been recently burned or mechancially cleared. Thus, the sparrows are not stable residents of any specific area for long periods of time.

Second, most of the habitat occupied by the Florida grasshopper sparrow is

on privately owned land and would not be affected by a determination of critical habitat. There would be no benefit to the species from determining any of this privately owned land as critical habitat. The only Federal agency that might be involved is the U.S. Air Force's Avon Park Bombing Range. The Air Force is already fully aware of this situation.

Therefore, a determination of critical habitat would provide no benefits to the species which would not already be available through the listing itself without critical habitat. For the above reasons, the Service determines that a proposal of critical habitat for the grasshopper sparrow is not prudent at the present time.

Available Conservation Measures

Conservation measures provided to species listed as endangered or threatened under the Endangered Species Act include recognition, recovery actions, requirements for Federal protection, and prohibitions against certain practices. Recognition through listing encourages and results in conservation actions by Federal, State, and private agencies, groups, and individuals. The Endangered Species Act provides for possible land acquisition and cooperation with the States and requires that recovery actions be carried out for all listed species. Such actions are initiated by the Service following listing. The protection required of Federal agencies and the prohibitions against taking and harm are discussed, in part, below.

Section 7(a) of the Act, as amended, requires Federal agencies to evaluate their actions with respect to any species that is proposed or listed as endangered or threatened and with respect to its critical habitat. Regulations implementing this interagency cooperation provision of the Act are codified at 50 CFR Part 402, and are now under revision (see proposal at 48 FR 29990; June 29, 1983). Section 7(a)(4) requires Federal agencies to confer informally with the Service on any action that is likely to jeopardize the continued existence of a proposed species or result in destruction or adverse modification of proposed critical habitat. If a species is listed subsequently, section 7(a)(2) requires Federal agencies to ensure that activities they authorize, fund, or carry out are not likely to jeopardize the continued existence of such a species or to destroy or adversely modify its critical habitat. If a Federal action may affect a listed species, or its critical habitat, the responsible Federal agency

must enter into formal consultation with the Service.

The only Federal agency that might be affected by the Florida grasshopper sparrow proposal and listing is the U.S. Air Force (Avon Park Bombing Range). Grasshopper sparrows that are resident in target areas of the Bombing Range will be directly affected by exploding ordnance. Fires from exploding ordnance also could spread to nearby areas inhabited by nesting grasshopper sparrows and may temporary damage the sparrow populations. During the period of the present proposal, the Air Force is required to confer with the Service on any action at its Avon Park Bombing Range which is likely to jeopardize the continued existence of this species. If the Florida grasshopper sparrow is listed as endangered, the Air Force will then be required to consult with the Service and to insure that actions it authorizes, funds, or carries out are not likely to jeopardize the continued existence of the species.

The Act and implementing regulations found at 50 CFR 17.21 set forth a series of general prohibitions and exceptions that apply to all endangered wildlife. These prohibitions, in part, would make it illegal for any person subject to the jurisdiction of the United States to take, import or export, ship in interstate commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce the Florida grasshopper sparrow. It also would be illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that had been taken illegally. Certain exceptions would apply to agents of the Service and State conservation agencies.

Permits may be issued to carry out otherwise prohibited activities involving endangered wildlife species under certain circumstances. Regulations governing permits are at 50 CFR 17.22 and 17.23. Such permits are available for scientific purposes, to enhance the propagation of survival of the species, and/or for incidental take in connection with otherwise lawful activities. In some instances, permits may be issued during a specified period of time to relieve undue economic hardship that would be suffered if such relief were not available.

Public Comments Solicited

The Service intends that any final rule adopted will be accurate and as effective as possible in the conservation of endangered or threatened species. Therefore, any comments or suggestions from the public, other concerned governmental agencies, the scientific community, industry, or any other

interested party concering any aspect of these proposed rules are hereby solicited. Comments particularly are sought concerning:

- (1) Biological, commercial trade, or other relevant data concerning any threat (or lack thereof) to the Florida grasshopper sparrow;
- (2) the location of any additional populations of the Florida grasshopper sparrow and the reasons why any habitat should or should not be determined to be critical habitat as provided by Section 4 of the Act;
- (3) additional information concerning the range and distribution of this subspecies; and
- (4) current or planned activities, in the subject areas and their possible impacts on the Florida grasshopper sparrow.

Final promulgation of the regulation on the Florida grasshopper sparrow will take into consideration the comments and any additional information received by the Service, and such communications may lead to adoption of a final regulation that differs from this proposal.

The Endangered Species Act provides for a public hearing on this proposal, if requested. Requests must be filed within 45 days of the date of the proposal. Such requests must be made in writing and addressed to the Field Supervisor, Endangered Species Field Station, U.S. Fish and Wildlife Service, 2747 Art Museum Drive, Jacksonville, Florida 32207.

National Environmental Policy Act

The Fish and Wildlife Service has determined that an Environmental Assessment, as defined under the authority of the National Environmental Policy Act of 1969, need not be prepared in connection with regulations adopted pursuant to section 4(a) of the Endangered Species Act of 1973, as amended. A notice outlining the Service's reasons for this determination was published in the Federal Register on October 25, 1983 (48 FR 49244).

Literature Cited

Delany, M.F., and J.A. Cox. 1985. Florida grasshopper sparrow status survey. Unpublished Report Prepared for U.S. Fish and Wildlife Service, Jacksonville: Florida, 21 pp plus tables and figures. Howell, A.H. 1932. Florida bird life. Coward-McCann, New York, N.Y., 579 pp. Kale, H.W., II. 1978. Rare and endangered biota of Florida, Vol. 2—Birds. Univ.

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Mearns, E.A. 1902. Description of three new
birds from the southern United States. Proc.
U.S. Nat. Mus., 24:915-926.

Nicholson, W.H. 1936. Notes on the habits of the Florida grasshopper sparrow. Auk, 53:318-319.

Smith, R.L. 1968. Grasshopper Sparrow, Pp. 725-745 in O.L. Austin, Jr., ed. Life Histories of North American Cardinals, Grosbeaks, Buntings, Towhees, Finches, Sparrows, and Allies. U.S. Nat. Mus., Bull 237, Part 2.

Author

The primary author of this proposed rule is John L. Paradiso, Endangered Species Field Station, U.S. Fish and Wildlife Service, 2747 Art Museum Drive, Jacksonville, Florida 32207 (904/791–2508 or FTS 946–2580).

List of Subjects in 50 CFR Part 17

Endangered and threatened wildlife, Fish, Marine mammals, Plants (agriculture).

Proposed Regulation Promulgation

PART 17-{AMENDED}

Accordingly, it is hereby proposed to amend Part 17, Subchapter B of Chapter I, Title 50 of the Code of Federal Regulations, as set forth below:

1. The authority citation for Part 17 continues to read as follows:

Authority: Pub. L. 93-205, **87** Stat. **684**; Pub. L. 94-359, 90 Stat. 911; Pub. L. 95-632, 92 Stat. 3751; Pub. L. 96-159, 93 Stat. 1225; Pub. L. 97-304, 96 Stat. 1411 (16 U.S.C. 1531 *et seq.*).

v2. It is proposed to amend § 17.11(h) by adding the following, in alphabetical order under BIRDS, to the List of Endangered and Threatened Wildlife:

§ 17.11 Endangered and threatened wildlife.

(h) * * *

Species				Vertebrate population where			Critical	Special
Солтон пете	Scient	ific name	Historic range	enderigared or threatened	Status	When listed	habitat	rules
BARDS .	•	•	•			•		
Sparrow, Florida grasshopper	Ammodramus danus.	savannarum flori-	U.S.A. (FL)	Entire	E	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NA	NA

Dated: December 4, 1985.

P. Daniel Smith.

Acting Assistant Secretary for Fish and Wildlife and Packs.

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